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Introducing

The New Concept Of Multi-Functional Management In The Data Center

The DX Matrix System

March 2004

"Innovation Guaranteed"

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Minicom's New DX system

Product Positioning Statement

The **DX system** is Minicom's new high-end, matrix KVM solution for superior management in high density server environments.

The **DX system** provides the IT manager in the data center a sensible, unified and secure solution for management and control of all mission critical servers, all serial hardware and all user profiles.

Minicom sets the standard again by being the first to introduce this new concept of out-of-band KVM & serial management powered by innovative HW/SW technology.

Its highly competitive price and ROI distinguishes the **DX system** as the most attractive management solution for the networked world.

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Product Definition

The DX system is

A Multi-functional, hardware based KVM & serial matrix switching system.

Powered by an embedded operating program,the DX system unifies management and control of all Users, Servers, Serial devices & Power in the data center environment.

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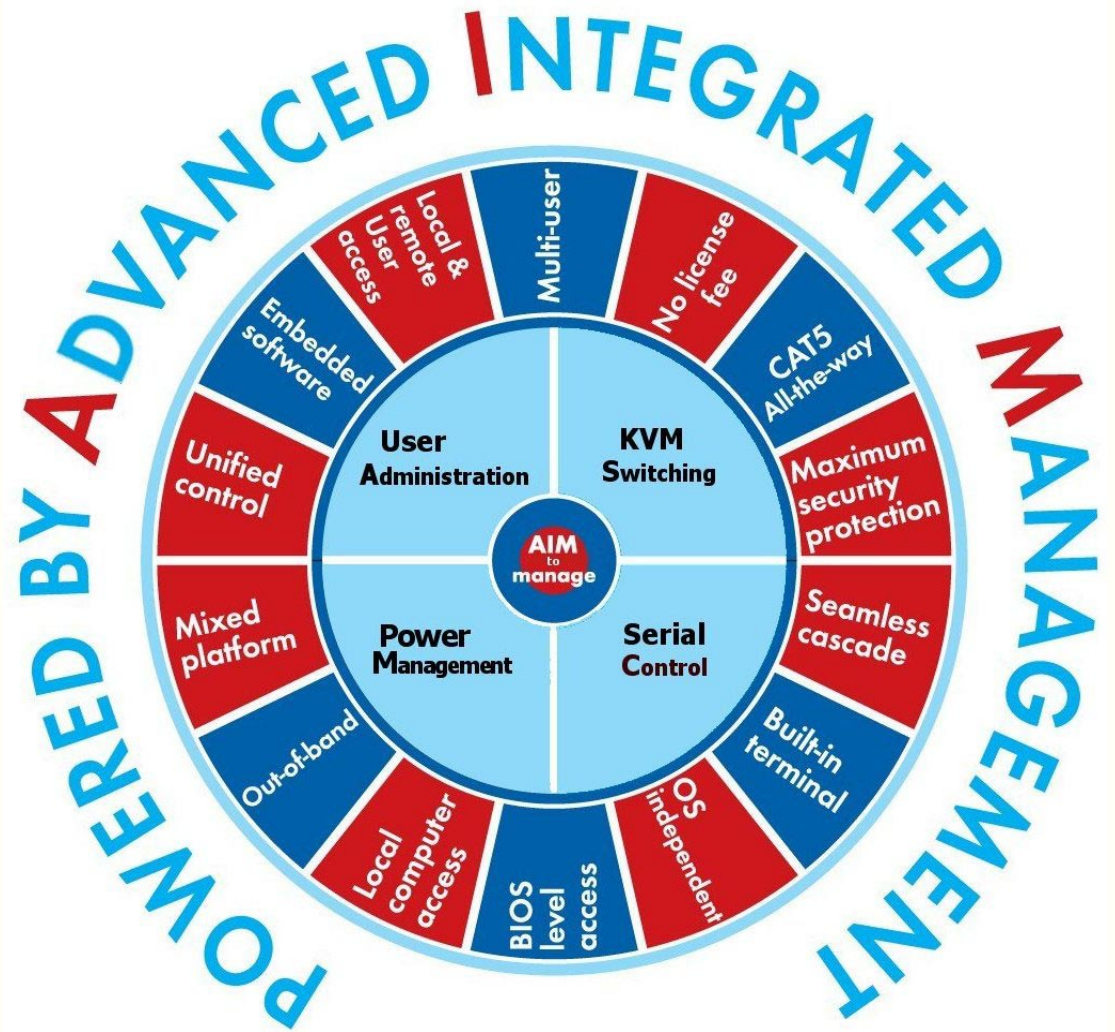
The New Concept



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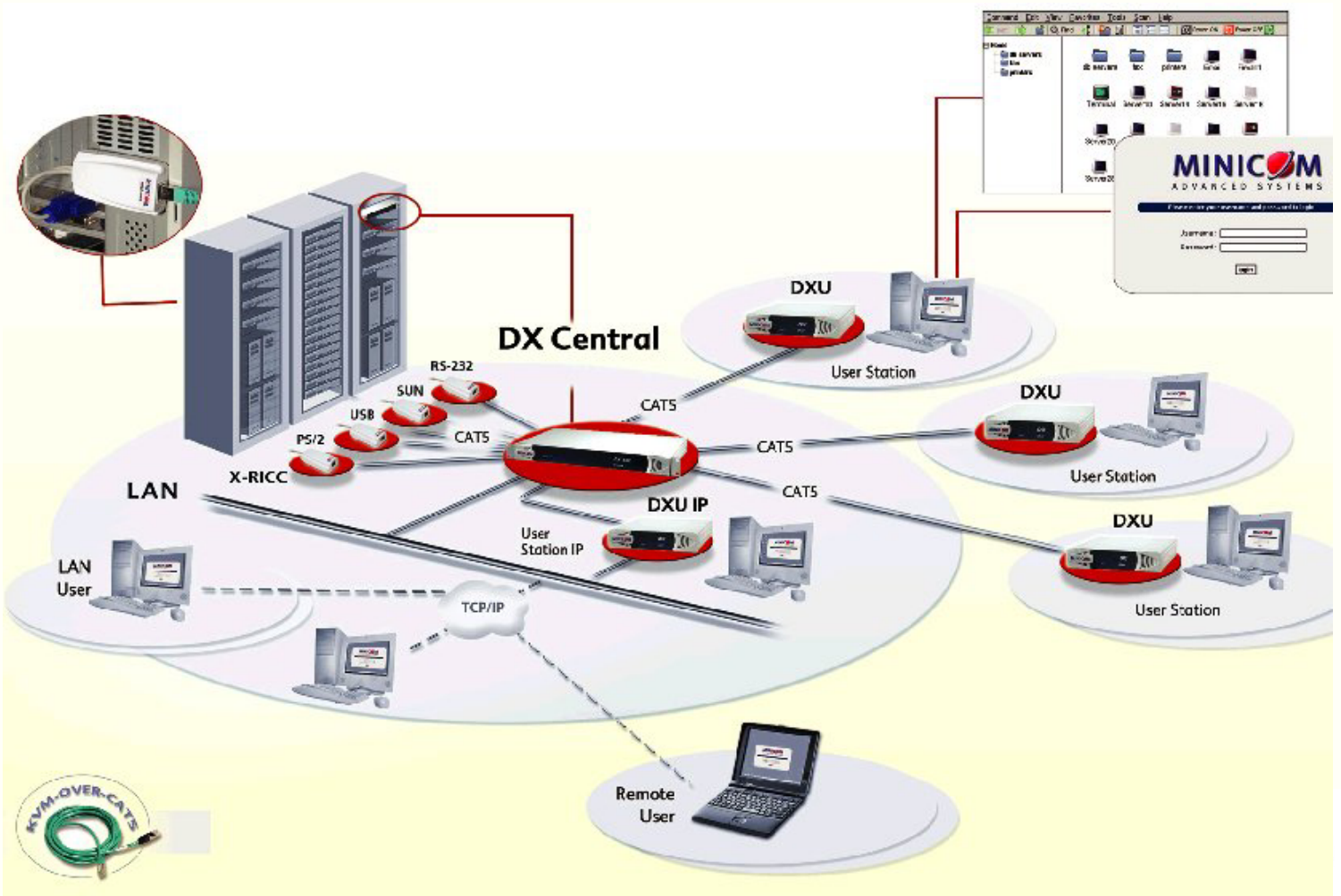
Typical 4x32 Application Layout



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Winning features & benefits

- ✓ Multi-functional matrix switching system
- ✓ Powered by AIM
- ✓ CAT5 all-the-way
- ✓ Flexible local analog or remote IP user access
- ✓ Non-blocking, one-stop multi-user operation
- ✓ Mixed-platform X–RICC technology
- ✓ Seamless cascade and expansion
- ✓ Multi-level security blocks
- ✓ Serial control from same user station
- ✓ Remote power control
- ✓ Competitive pricing – high ROI

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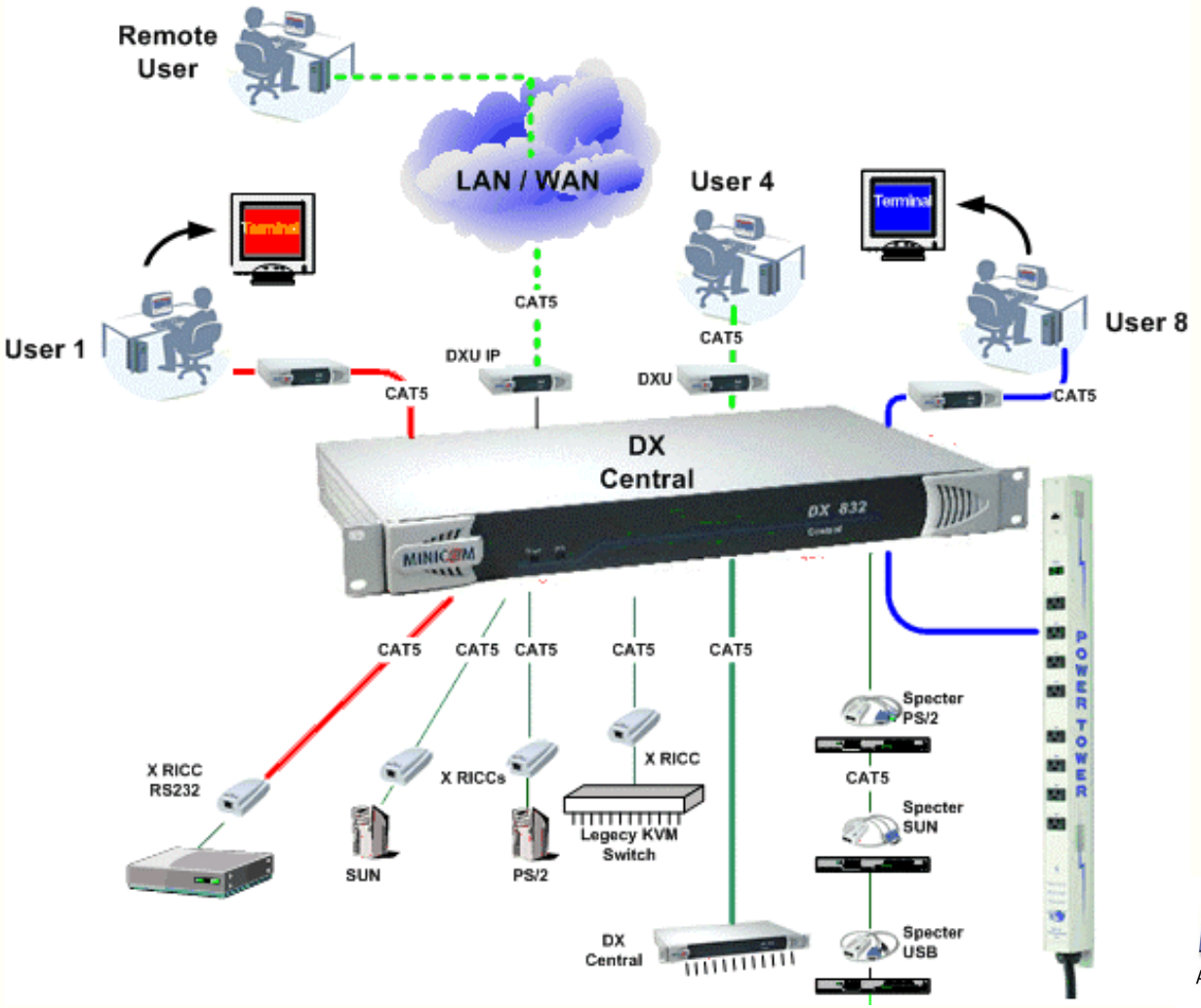
Multi-Functional Matrix

- ✓ User administration
- ✓ KVM switching
- ✓ Serial control
- ✓ Power management



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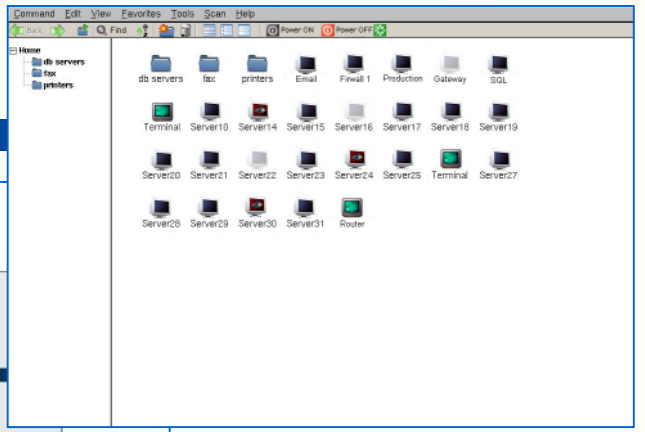
Powered by **AIM**



Advanced
Integrated
Manager:

Embedded LINUX operating system that integrates user management, server management, power management and serial control onto one graphical interface.

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CAT5 Technology all-the-way

- ✓ Leaders of the CAT5 revolution
- ✓ UTP / FTP
- ✓ CAT5/6/7 cable
- ✓ 100m/330ft user to DX Central
- ✓ 100m/330ft DX Central to server

DX Central 832

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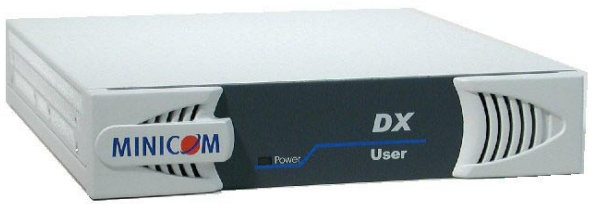
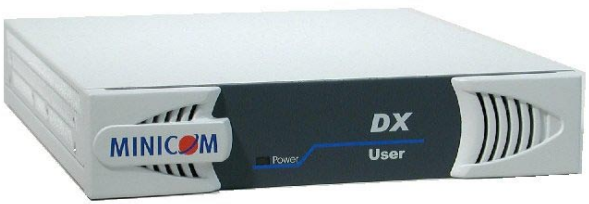
Flexible Local or Remote Access

- ✓ You decide the IP mix – add IP users according to your specific needs
- ✓ Start small and expand as your business grows
- ✓ Direct connection links - all you need to remember is one IP address
- ✓ Up to 100m/330ft from user to DX central, CAT5 all-the-way
- ✓ No distance limit with IP extension

DX IP User unit



DX User unit



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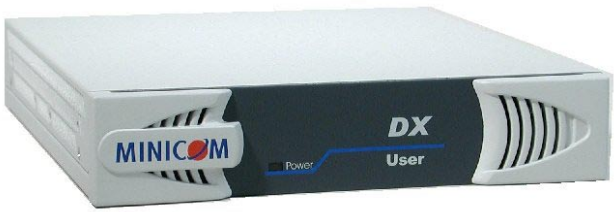
One-stop, Multi-user Operation

- ✓ Powerful embedded software program
- ✓ Intuitive Linux based Graphical User Interface
- ✓ Centralized, one-stop solution for management of all out-of-band hardware and users.
- ✓ High level of integration with network/system administration
- ✓ Event log for better security and data collection
- ✓ 2 serial ports
- ✓ OS independent
- ✓ No license fee
- ✓ SNMP option



DX User unit

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X-RICC Technology

- ✓ 4 models: PS/2, SUN, USB, RS-232
- ✓ RICC PS/2 compatible for short distance
- ✓ Rack mounting kit included
- ✓ UTP/FTP CAT5/6/7 cable
- ✓ 100m/330ft from X-RICC to DX Central
- ✓ No power supply needed
- ✓ Extra security with system lock feature

X-RICC

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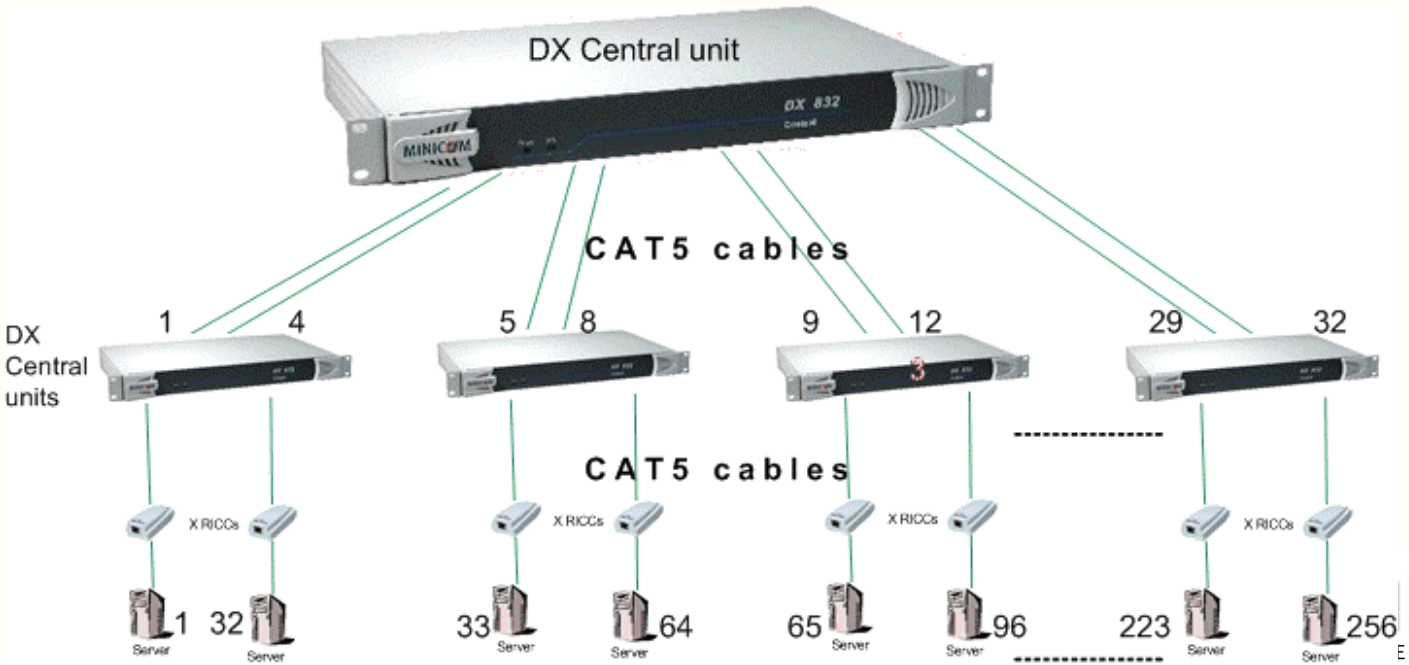
Seamless Cascade and Expansion

- ✓ **Auto configuration of system on first installation**
- ✓ **Direct cable connection between central units – no X-RICC.**
- ✓ **No single point of failure - system configurations and settings saved on all DX central units**
- ✓ **Simple configuration of legacy KVM switches into the DX system**
- ✓ **Compatible with all Minicom KVM solutions and other major manufacturers**



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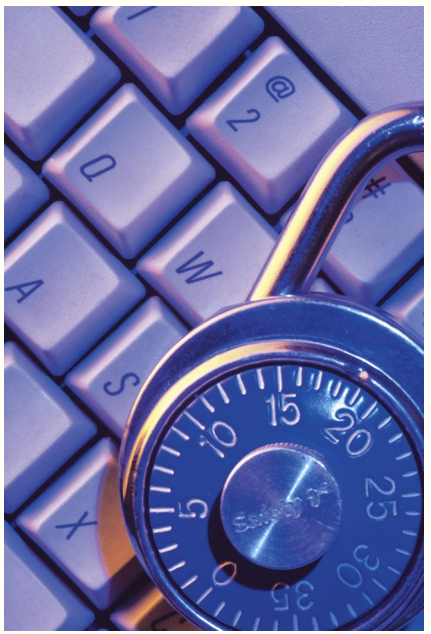
Multi-level Security Blocks

- ✓ User-name/password authentication
- ✓ Up to 1000 users listed (passwords)
- ✓ Up to 32 user profiles
- ✓ Double Security connection lock-
  - ➢ user-port recognition
  - ➢ port-server recognition



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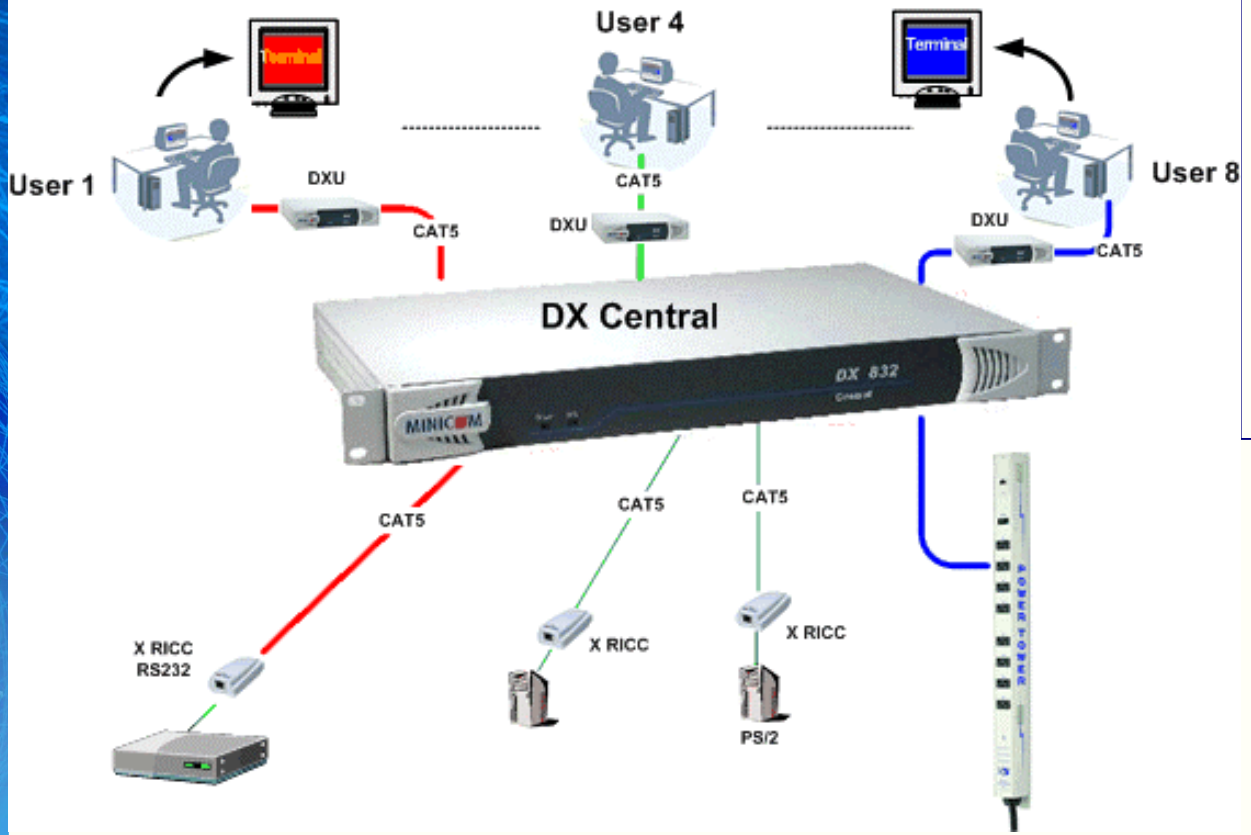
Serial access and control



- ✓ **Control UNIX servers**
- ✓ **Innovative X-RICC RS-232**
- ✓ **Multiple serial control options:**
  - ➢ **Through built-in terminal emulator at the DXU**
  - ➢ **Via external terminal**
  - ➢ **Through hyper terminal of local computer**
- ✓ **Dual serial – KVM control option**

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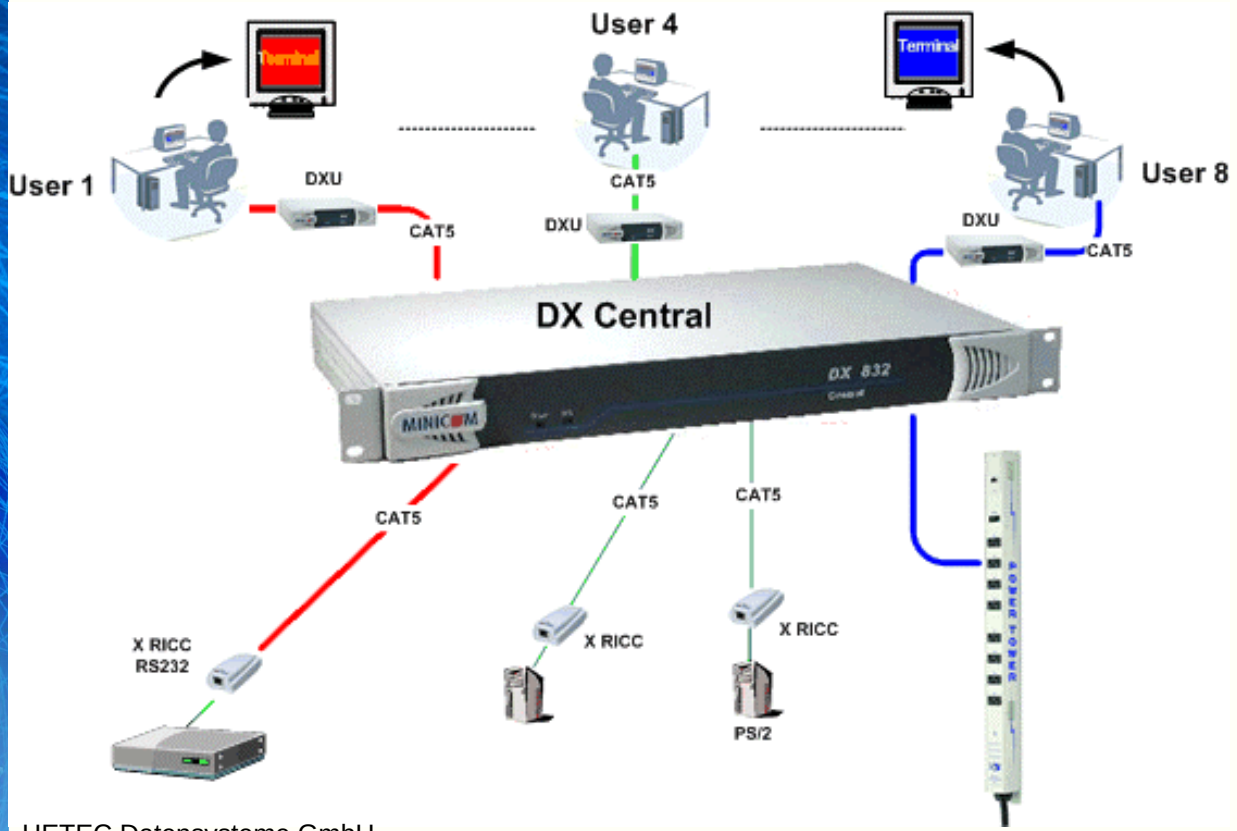
Power Management



- ✓ Seamless power management for most popular manufacturers
- ✓ Monitor & control power through AIM graphical interface
- ✓ Multiple serial control options for other popular power switches

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Main features and benefits

Feature	Benefit
Pure HW solution	Out-of-band, BIOS level access
Multi-user, mixed,multi-platform	Non-blocking PS2,SUN,USB,RS232 control of 1000's of servers
Embedded LINUX management software (AIM)	Simple and intuitive, NO legacy OSD OS & network Independent, no license fee
Unified KVM, Serial AND user control	One stop, centralized management for all KVM and serial equipment(servers, routers, power) and user authorization and security profiles
Low density CAT5/6/7 cable Up to 200m/660ft user to server	Eliminate cable clutter at the rack Save valuable space & cost All-the-way CAT5 user to server
No single point of failure	All system settings and parameters are saved on all DX central units.
Multi-level security blocks	Double security – check access rights to server and to port
High quality video transfer	Support up to 1600x1200 @ 75Hzs

Minicom's New DX system
Main features and benefits

Feature	Benefit
Automatic system configuration	First time installation is detected automatically by system
Intuitive system setup and maintenance	Set up of entire system done through built-in wizard
Independent user station	Connection of local computer is optional
4 levels of user profiles – no access, view only, control KVM, full control KVM & serial	High security protection
Event log file	Better security and data collection
Up to 32 user profiles/1000 users	Secure multi-level, multi-user operation
Intelligent admin network port	Seamless management between cascaded units
Seamless cascade of additional switch layers	Monitor and control servers from same interface regardless of their physical connection

Minicom Advanced Systems Ltd.,

A World Leader in KVM, AV- Digital Signage, CBT Solutions

- Almost 2 decades of technology leadership, innovation and fast growth
- Pioneers of CAT5 revolution in KVM and CBT markets
- Original Distributed Switch Technology (DST)
- Privately owned, Headquarters in Jerusalem
- Subsidiaries in the USA, Italy ,Switzerland
- ISO 9002 Certified

Minicom HQ Jerusalem, Israel

Design: Shoken Architects

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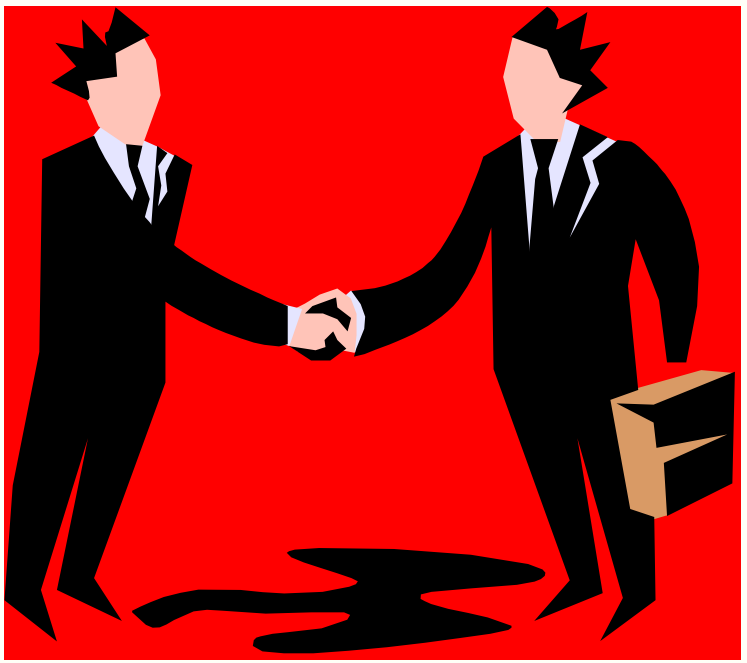

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